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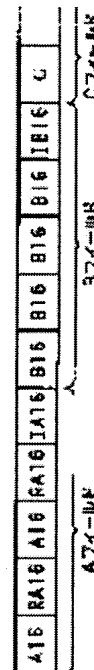
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(54) SYNCHRONIZED PREAMBLE STRUCTURE, TRANSMITTER AND SYNCHRONIZATION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a synchronized preamble structure having an autocorrelation characteristic.

SOLUTION: This structure is used for synchronization of a receiver to receive a signal modulated through orthogonal frequency division multiplexing and has at least one A field that is used for rough detection and/or automatic gain control of a frame and at least one B field in succession temporally to the A field and used for synchronization and frequency synchronization. The A field and the B field include a stream of complex symbols in the frequency region subject to inverse fast Fourier transform and the A field in the frequency region depends on a stream of the B field so that the synchronization efficiency of an output waveform in a time region is optimized.



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